## North Carolina Biotechnology Center

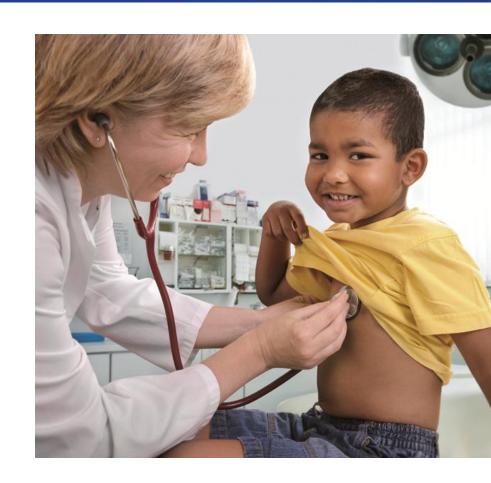
Overview and Impact February 19, 2013

## Agenda

- About Biotechnology
- About NC's Industry
- About the Center
  - Key Performance Indicators
  - Partner Organizations
  - Budget
- Looking to the future

# About Biotechnology – High Impact Inudstry

- Potential to heal, fuel, feed the world
- Average salary -\$78,348
- 4 additional jobs for each biotech job
- 237,665 total jobs



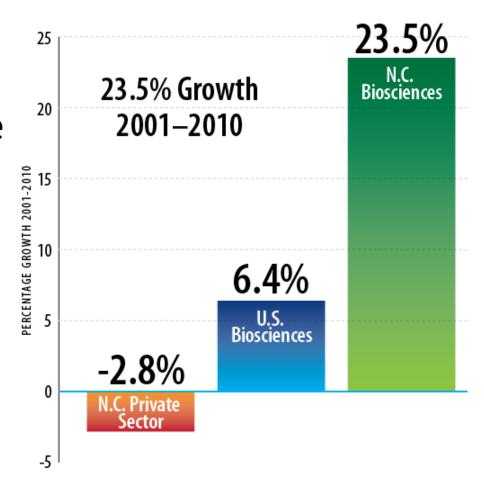
## Biotech in NC – Annual Economic Impact

#### 58,000 employees at 500+ companies create:

- \$59.0 billion in total economic activity
- 237,665 total jobs
- \$14.8 billion in employee compensation
- \$1.73 billion in state and local revenues

## Biotech in NC – Fastest Growing

Of the top ten states for biotechnology, North Carolina has the fastest job growth.



### **ABOUT THE CENTER**

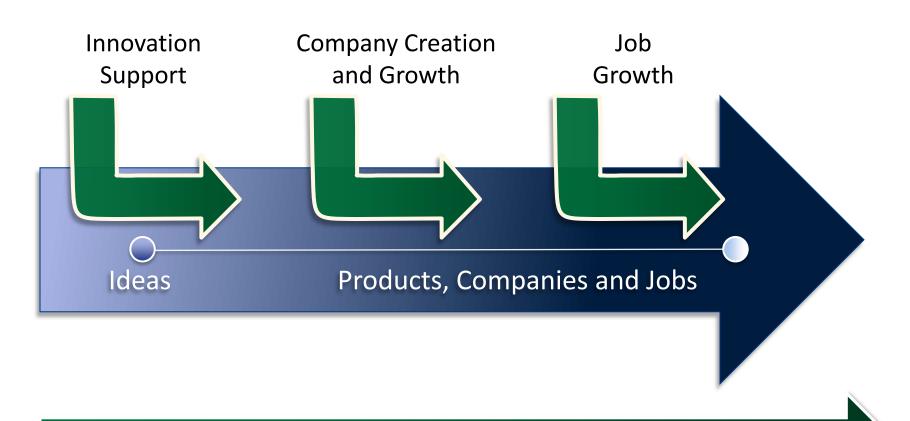
#### About NCBiotech - What We Do

First of its kind
Focus on job creation
Accelerate technology
Portfolio of programs

- Innovation
- Business
- Education
- Economic Development







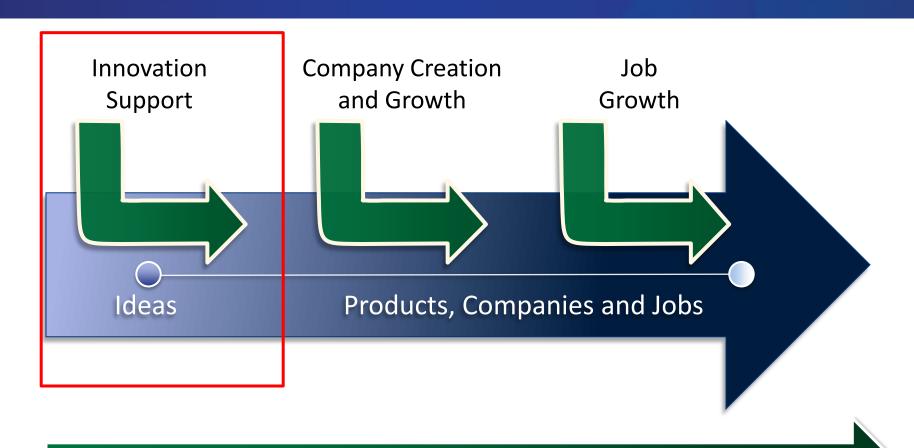
Education, Partnering and Other Programs

#### About NCBiotech – Statewide Offices



- Western (Asheville)
- Greater Charlotte
- Piedmont Triad (Winston-Salem)

- Research Triangle Park
- Eastern (Greenville)
- Southeastern (Wilmington)



Education, Partnering and Other Programs

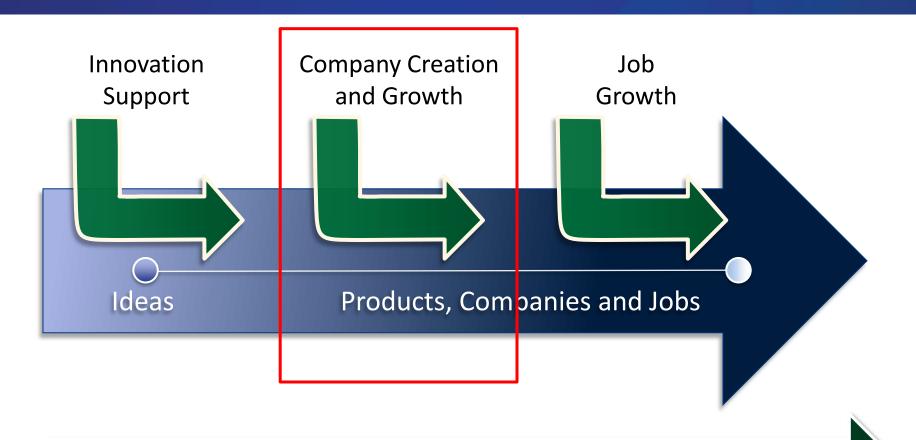
## **Innovation Support KPIs**

## Grants to build capacity statewide and university/company partnerships

\$98 million granted; Return per \$1 granted:

- Collaborative Funding (\$69.64)
- Faculty Recruitment (\$54.92)
- Institutional Development (\$9.49)
- Multidisciplinary (\$4.32)
- Biotech Research (\$4.14)

Annual Direct Cost: \$801,181



Education, Partnering and Other Programs

## Company Creation and Growth KPIs

#### Small company loans and growth support

- 139 companies
- \$22.2 million loaned
- \$2.6 billion in follow-on funding
- \$117 leveraged per \$1 loaned
- Created 2,830 new jobs
- 54 company launches

Annual Direct Cost: \$680, 171

## Company Creation and Growth KPIs

#### Sector growth – Centers of Innovation

- Four active COIs
  - Advanced medical technologies
  - Nanobiotech
  - Marine
  - Personalized medicine
- Launchibiliti Program with Mission Hospital to take staff ideas to products.

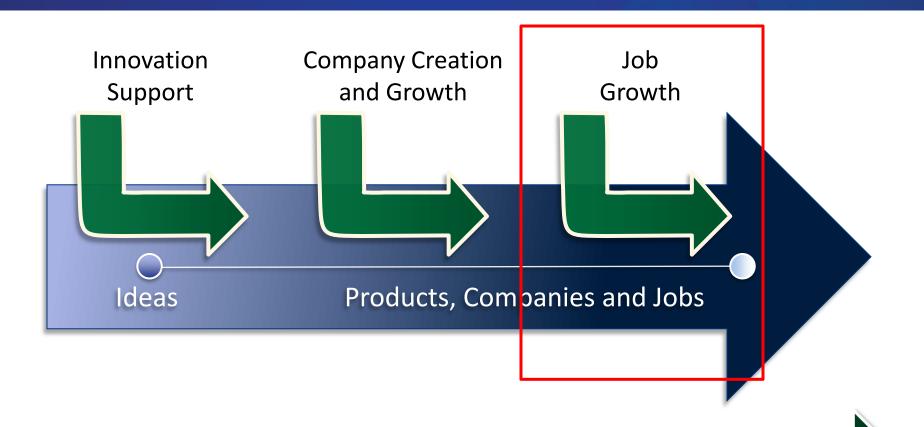
Annual Direct Cost: \$366,598

## Company Creation and Growth KPIs

#### Sector growth - AgBiotech

- Biotech Crops Commercialization Center saved \$50M+ for NC meat animal industry.
- Leveraged \$929,550 in private funds for programs over 3 years.
- Company profile directory helps NC companies find technology development partners.

Annual Direct Cost: \$579,731



Education, Partnering and Other Programs

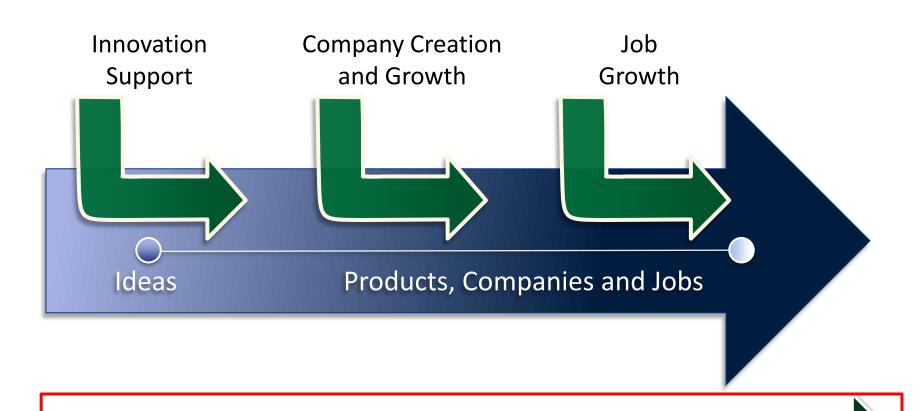
#### Job Growth KPIs

#### Company recruitment, expansion and retention

#### Since 2008:

- 24 company expansions to/within NC
- 1,700+ jobs
- 7,800+ total jobs
- \$2.0B in economic activity
- \$59 million in state and local taxes

Annual Direct Cost: \$363,186



Education, Partnering and Other Programs

#### **Education KPIs**

#### Workforce development and teacher training

- 1900+ teachers trained;
- 50,000 students reached each year
- \$7M for lab equipment & courses
- 8,000+ BioWork manuals distributed to colleges

Annual Direct Cost: \$656,455

## 2012 Budget/Metrics Summary

Categories	Dollars	Metrics
Company Creation	\$1,626,500	\$1> \$117
Job Growth	\$363,186	1,754 jobs; \$2.0B
Innovation	\$801,181	\$1> \$69
Education	\$656,455	50,000 students annually
Partnering, etc.	\$2,828,448	Thousands of participants
Statewide	\$1,643,326	Increased funding to regions
Awards (all programs)	\$8,648,062	(\$9.8M budget FY2013)
Indirect/Other Costs/Rev	\$1,895,579	

## SIMILAR ORGANIZATIONS BUDGETARY IMPACT

## NCBiotech is Unique

- No one organization focuses on life science
- NCBiotech is the catalyst
- Other states created biotech centers
  - Maryland
  - Massachusetts
  - Georgia
- Competitive programs from Texas, Ohio, more

## **Budgetary Impact**

- No one entity would advocate for life science.
- Continuity would be lost.
- Other states would recruit our companies.
- Massachusetts, Texas and California are already growing faster.

## The Next Big Thing

#### Biotech Job Creation: The Path to Success

INNOVATION		CAPITAL		INFRASTRUCTURE		LABOR	
Target ag biotech development  Biotech Crop Commercialization  Portal to ease market entry	<b>\$450K/yr</b> (BC)	Reinstate and expand state support for SBIR/STTR matching grant program	<b>\$5M/yr</b> (DOC)	Initiate life-science site and infrastructure readiness program  • Water/wastewater  • Other utilities  • Site improvements	<b>\$10 – 25M</b> (DOC)	Restore NCBioImpact funding to pre-recession levels	<b>\$2.5</b> – <b>3M/yr</b> (UNC/NCCCS)
Complete Pilot Extraction Facility	<b>\$1M</b> (BC)	Expand NCBiotech loan program • Early-stage • Growth	<b>\$2.5M/yr</b> (BC)	Create incubator facilities in regional clusters	\$500K (BC)	Increase teacher development in biotech-related subjects  Outreach to charter schools	<b>\$500K/yr</b> (BC)
		Relieve tax burden  • QBV Tax Credit expansion  • Capital gains tax relief  • Sales tax exemption for research	TBD	Establish funding for small-company attraction, expansion and retention	<b>\$1M/yr</b> (BC)		
LONG TERM		LONG TERM		LONG TERM		LONG TERM	
Continue development of biotechnology-related sectors  Vaccine consortium  Cancer research  Biodefense	TBD	Create strategic investment fund for VCs that locate in N.C. and invest in N.C. companies	TBD	Loan guarantees, with revenue other than state funds	TBD	Further develop Biomanufacturing Training and Education Center	TBD
Improve university technology transfer	TBD					Develop Professional Science Masters programs	TBD

Lead Agencies: BC-Biotechnology Center DOC-Department of Commerce UNC-University of North Carolina NCCCS-North Carolina Community College System

NORTH CAROLINA BIOTECHNOLOGY CENTER

ncbiotech.org

Thank you for your time.